



CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005



Job No.: CTCE/BBMP/BRD/W.No.08/CSR-09/140d/CEMENT/2016-17

Date: 13.09.2016

TEST REPORT ON CEMENT

* CUSTOMER	:	Asst. Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
* AGENCY	:	Mr. B.R. Dhananjaya, 3 rd Cross, Gundappa road, Nagashettyhalli R.M.V 2 nd Stage, Bangalore – 94.
* NAME OF THE WORK	:	Improvements of Drain and Cement Concrete road in Kodigehalli A.K. Colony in Ward No.08 (Kodigehalli) Kodigehalli Sub Division, BBMP, Bangalore.
REFERENCE	:	EE/BTP/BBMP/E-PMT/594/2013-14 Dated: 03.03.2014
SAMPLE ID	:	Cement – Sample 2
SAMPLE RECEIVED ON	:	10.09.2016
PERIOD OF TESTING	:	10.09.2016 to 13.09.2016



The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	30.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	145 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	470 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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Signature

Signature
VISHWANATH. I.A.
Chief Executive Officer

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwara Nagar, Bangalore-79.

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Job No.: CTCE/BBMP/BRD/W.No.08/CSR-09/140d/SAND-Gradation/2016-17

: 13.09.2016

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

* **Customer** : Asst. Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

* **Agency** : Mr. B.R. Dhananjaya,
3rd Cross, Gundappa road, Nagashettyhalli R.M.V 2nd Stage, Bangalore – 94.

* **Name of Work** : Improvements of Drain and Cement Concrete road in Kodigehalli A.K. Colony in Ward No.08 (Kodigehalli) Kodigehalli Sub Division, BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-PMT/594/2013-14 Dated: 03.03.2014

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates – Sample 2

Sample Received on : 10.09.2016

Date of Testing : 13.09.2016



Total Wt. of Aggregates in gms **1000**

A&S
1

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	92.50	90-100	90-100	90-100	95-100
2.36	73.20	60-95	75-100	85-100	95-100
1.18	52.00	30-70	55-90	75-100	90-100
600 Micron	25.50	15-34	35-59	60-79	80-100
300 Micron	9.70	5-20	8-30	12-40	15-50
150 Micron	3.20	0-10	0-10	0-10	0-15

*Information is furnished by the Customer/Representative.

Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/BRD/W.No.08/CSR-09/140d/AGG/GR/2016-17

: 13.09.2016

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

* **Customer** : Asst. Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

* **Agency** : Mr. B.R. Dhananjaya,
3rd Cross, Gundappa road, Nagashettyhalli R.M.V 2nd Stage, Bangalore - 94.

* **Name of Work** : Improvements of Drain and Cement Concrete road in Kodigehalli A.K. Colony
in Ward No.08 (Kodigehalli) Kodigehalli Sub Division, BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-PMT/594/2013-14 Dated: 03.03.2014

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (40mm) - Sample 2

Sample Received on : 10.09.2016

Date of Testing : 13.09.2016



Total Wt. of Aggregates in gms= 5000

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	98.10	95-100	85-100
20	37.10	30-70	0-20
10	16.60	10-35	0-5
4.75	3.60	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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Job No.: CTCE/BBMP/BRD/W.No.08/STEEL/2016-17

13.09.2016

TEST REPORT ON REINFORCEMENT STEEL

Customer : **Asst. Executive Engineer**, Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Mr. B.R. Dhananjaya**,
3rd Cross, Gundappa road, Nagashettyhalli R.M.V 2nd Stage, Bangalore - 94.

Name of the work : Improvements of Drain and Cement Concrete road in Kodigehalli A.K. Colony in Ward No.08 (Kodigehalli) Kodigehalli Sub Division, BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-PMT/594/2013-14 Dated: 03.03.2014

Date of Test : 13.09.2016

Technical Reference : IS: 1786-2008



A.E.E.
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Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm ²	Tensile strength (Ultimate stress) N/mm ²	Elongation percent gauge length		
1	10	0.62	513	556	13.25	O.K	O.K

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Gp

M/s. Civil-Tech Consultants & Engineers
23/14, 7th Cross, 3rd Stage,
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Job No.: CTCE/BBMP/BRD/W.No.08/CSR-09/140d/CUBE/2016-17

13.10.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*Customer : Asst. Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

*Agency : Mr. B.R. Dhananjaya,
3rd Cross, Gundappa road, Nagashettyhalli R.M.V 2nd Stage, Bangalore – 94.

*Name of the work : Improvements of Drain and Cement Concrete road in Kodigehalli A.K. Colony in Ward No.08 (Kodigehalli) Kodigehalli Sub Division, BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-PMT/594/2013-14 Dated: 03.03.2014

*Sample ID : Drain Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*Grade of Concrete : M₂₀

Compressive Strength as on : 28th day

Sample Received on : 13.10.2016



Sl.No.	*Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	15.09.2016	13.10.2016	8.263	496.7	22.08
2	15.09.2016	13.10.2016	8.154	488.5	21.71
3	15.09.2016	13.10.2016	8.329	515.3	22.90

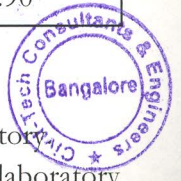
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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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*Name of the work : Improvements of Drain and Cement Concrete road in Kodigehalli A.K. Colony in Ward No.08 (Kodigehalli) Kodigehalli Sub Division, BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-PMT/594/2013-14 Dated: 03.03.2014

*Sample ID : Drain Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*Grade of Concrete : M₂₀

Compressive Strength as on : 28th day



Sample Received on : 13.10.2016

Sl.No.	*Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	15.09.2016	13.10.2016	8.254	505.6	22.47
2	15.09.2016	13.10.2016	8.379	514.2	22.85
3	15.09.2016	13.10.2016	8.412	527.3	23.44

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*Name of the work : Improvements of Drain and Cement Concrete road in Kodigehalli A.K. Colony in Ward No.08 (Kodigehalli) Kodigehalli Sub Division, BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-PMT/594/2013-14 Dated: 03.03.2014

*Sample ID : Drain Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*Grade of Concrete : M₂₀

Compressive Strength as on : 28th day

Sample Received on : 13.10.2016



Sl.No.	*Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	15.09.2016	13.10.2016	8.265	495.8	22.04
2	15.09.2016	13.10.2016	8.374	510.2	22.68
3	15.09.2016	13.10.2016	8.186	484.5	21.53

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Reference : EE/BTP/BBMP/E-PMT/594/2013-14 Dated: 03.03.2014

*Sample ID : Drain Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*Grade of Concrete : M₂₀

Compressive Strength as on : 28th day



Sample Received on : 14.10.2016

Sl.No.	*Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	16.09.2016	14.10.2016	8.364	530.4	23.57
2	16.09.2016	14.10.2016	8.178	506.3	22.50
3	16.09.2016	14.10.2016	8.295	518.9	23.06

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*Customer : Asst. Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

*Agency : Mr. B.R. Dhananjaya,
3rd Cross, Gundappa road, Nagashettyhalli R.M.V 2nd Stage, Bangalore – 94.

*Name of the work : Improvements of Drain and Cement Concrete road in Kodigehalli A.K. Colony in Ward No.08 (Kodigehalli) Kodigehalli Sub Division, BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-PMT/594/2013-14 Dated: 03.03.2014

*Sample ID : Drain Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*Grade of Concrete : M₂₀

Compressive Strength as on : 28th day



Sample Received on : 14.10.2016

AE-8

Sl.No.	*Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	16.09.2016	14.10.2016	8.184	487.2	21.65
2	16.09.2016	14.10.2016	8.269	495.4	22.02
3	16.09.2016	14.10.2016	8.348	512.6	22.78

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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*Agency : Mr. B.R. Dhananjaya,
3rd Cross, Gundappa road, Nagashettyhalli R.M.V 2nd Stage, Bangalore – 94.

*Name of the work : Improvements of Drain and Cement Concrete road in Kodigehalli A.K. Colony in Ward No.08 (Kodigehalli) Kodigehalli Sub Division, BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-PMT/594/2013-14 Dated: 03.03.2014

*Sample ID : Drain Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*Grade of Concrete : M₂₀

A&B Compressive Strength as on : 28th day



Sample Received on : 14.10.2016

Sl.No.	*Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	16.09.2016	14.10.2016	8.362	501.4	22.28
2	16.09.2016	14.10.2016	8.457	516.6	22.96
3	16.09.2016	14.10.2016	8.513	528.3	23.48

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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*Agency : Mr. B.R. Dhananjaya,
3rd Cross, Gundappa road, Nagashettyhalli R.M.V 2nd Stage, Bangalore – 94.

*Name of the work : Improvements of Drain and Cement Concrete road in Kodigehalli A.K. Colony in Ward No.08 (Kodigehalli) Kodigehalli Sub Division, BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-PMT/594/2013-14 Dated: 03.03.2014

*Sample ID : Covering Slab Drain Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*Grade of Concrete : M₂₀

Compressive Strength as on : 28th day

Sample Received on : 17.10.2016



Sl.No.	*Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	19.09.2016	17.10.2016	8.263	503.7	22.39
2	19.09.2016	17.10.2016	8.148	495.6	22.03
3	19.09.2016	17.10.2016	8.325	520.4	23.13

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